## INTRA-LABORATORY CORRESPONDENCE



## March 1, 1961

To: J. A. Swartout

I have discussed the observed increase in particulate air contamination at the Laboratory with Doyle Davis of Applied Health Physics and have been assured that the trend was under surveillance. The high particle count observed in November is attributed to three things:

- (1) Four ruptured slugs were pushed from the Graphite Reactor with an attendant increase in stack effluent activity.
- (2) The finishing filters in the Graphite Reactor filter house were inspected, found to be slightly damaged, and replaced.
- (3) A faulty filter was discovered in a filter bank of the central gas cleaning facility at the 3039 stack.

Any of these circumstances may have contributed to the observed particle increase; however, gamma spectrometry indicated that the activity on the gummed paper fall-out trays was primarily I-131.

Recent data, as shown by the following table, indicate that the situation has been corrected.

Month	Number of Particles per 1000 cu ft of air	Particles per sq ft
November	3.0	60
December	0.32	10.9
January	0.78	5.2

In November, Health Physics informed the Operations Division of the unusual particle situation existing.

## F. R. Bruce

FRB: mb

cc: D. M. Davis

W. H. Jordan

K. Z. Morgan

A. M. seinberg

This document has been approved for release to the public by

Technical Information Officer Date

## Oak Ridge Health Study Document Summary Form

Oak Ruge Hearth Study Document Summary 10.111			
MCUMENT TITLE: Bruce, F.R., 3/1/61, regards to werease in			
particulate air contamination			
DOCUMENT NUMBER OR IDENTIFIER:			
AUTHOR(S): Bruce, F.R.			
PUBLICATION DATE: 3/1/6/ DATA TIME PERIOD: Start 1960 Stop 196/			
LOCATION OF COPY (if one was made): attached			
CLASSIFICATION CATEGORY: UNK UNC OUO UCNI CL* *Category & Level: FRD or RD or NSI; CONF or S or TS			
SITE(S) DOCUMENT ADDRESSES: K X Y S ORR MELT CLIN WOC WOL POPL EFPC PCE BEAR WATT			
SOURCE/LOCATION OF DOCUMENT: K.Z. Morgan files at X-10			
DOCUMENT CATEGORY			
Al (DL dr dc da) (ED ea ew es ef) EP (HO) hp hr hs hw) IN IP (ST sa sw ss) TM WP			
Primary category - circle once; Secondary category (optional) - circle twice. Circle only one in a bracketed group.			
DATE ENTERED INTO DATABASE: BY: Am InMagic No. 2572			
:YWORDS: Contamination, air, partuellate, slug, fliter			
Concavación, per			
ABSTRACT:			
This is a memo notice of increase in air contamination			
due to four elig systemes, filters in filter bouse			
were damaged, and faulty filter in a filter bank.			
For example in november, 1960 vidicate 3 particulo per 1000			
cubic feet where 60 particles per square feet are			
being released.			
·			
1			
REVIEWER: , MAA DATE REVIEWED: 7/8/96			